

Dr. Duke's Phytochemical and Ethnobotanical Databases

List of Plants for PROTOCATECHUIC-ACID

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Acacia decurrens</i>	Plant				--
<i>Acacia nilotica</i>	Fruit				--
<i>Achillea millefolium</i>	Plant				Tunon, H., Thorsell, W., and Bohlin, L. 1993. Mosquito Repelling Activity of Compounds Occurring in <i>Achillea millefolium</i> L. (Asteraceae). <i>Economic Botany</i> 48(2): 111-120, 1994.
<i>Agrimonia eupatoria</i>	Plant				--
<i>Allium cepa</i>	Bulb	4500.0	17540.0		--
<i>Allium cepa</i>	Leaf				Das, V. S. R., Rao, J. V. S. 1964. Phenolic Acids of Onion Plant. <i>Curr. Sci.</i> , 33(15): 471-472.
<i>Althaea officinalis</i>	Flower				--
<i>Althaea officinalis</i>	Leaf				--
<i>Anemarrhena asphodeloides</i>	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
<i>Apium graveolens</i>	Plant				Pakistan Encyclopedia Planta Medica. 1986.
<i>Arachis hypogaea</i>	Seed		4.0	-1.0	--
<i>Arctostaphylos uva-ursi</i>	Leaf				--
<i>Artemisia dracunculus</i>	Leaf	3.0	17.0	-0.8777778451667783	--
<i>Artemisia absinthium</i>	Plant				--
<i>Aspalathus linearis</i>	Shoot		2.6		--
<i>Brassica nigra</i>	Seed				Jim Duke's personal files.
<i>Brassica oleracea</i> var. <i>capitata</i> L.	Leaf				--
<i>Brassica oleracea</i> var. <i>capitata</i> L.	Plant				--
<i>Capsella bursa-pastoris</i>	Plant				--
<i>Catalpa bignonioides</i>	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Catharanthus roseus</i>	Plant				Rizk, A.F.M., The Phytochemistry of the Flora of Qatar, Scientific and Applied Research Centre, University of Qatar, Kingprint, Richmond, UK, 1986.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Centaurea cyanus</i>	Flower				Jim Duke's personal files.
<i>Centaurium erythraea</i>	Plant				--
<i>Cinchona pubescens</i>	Leaf				--
<i>Coriandrum sativum</i>	Plant	167.0	179.0	0.8781551128951783	Abstract (See species file)
<i>Coriandrum sativum</i>	Fruit		760.0	0.9999999999999999	Abstract (See species file)
<i>Corylus americana</i>	Seed				Senter, S. D., Horvat, R. J., Forbus, W. R. 1983. Comparative GLC-MS Analysis of Phenolic Acids of Selected Tree Nuts. <i>J. Food Science</i> , 48(3): 798-799.
<i>Curcuma longa</i>	Leaf				--
<i>Cyamopsis tetragonoloba</i>	Fruit				Bajaj, K. L., Rani, M., Arora, Y. K. 1978. Polyphenols and Lignins of Mature Guar Pods (<i>Cyamopsis tetragonolobus</i>). <i>Plant Biochem J</i> , 5: 140-145.
<i>Dryopteris filix-mas</i>	Rhizome				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Eleutherococcus senticosus</i>	Stem Bark				--
<i>Equisetum arvense</i>	Plant				Jim Duke's personal files.
<i>Eucalyptus globulus</i>	Leaf				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
<i>Eucalyptus grandis</i>	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
<i>Eucommia ulmoides</i>	Leaf				--
<i>Fagopyrum esculentum</i>	Testa		134.0		--
<i>Fallopia japonica</i>	Root		1.0		--
<i>Foeniculum vulgare</i>	Seed				Rizk, A.F.M., The Phytochemistry of the Flora of Qatar, Scientific and Applied Research Centre, University of Qatar, Kingprint, Richmond, UK, 1986.
<i>Foeniculum vulgare</i>	Fruit				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Fragaria</i> spp	Fruit				Jim Duke's personal files.
<i>Gentiana lutea</i>	Root				--
<i>Geranium thunbergii</i>	Leaf				--
<i>Ginkgo biloba</i>	Leaf				Jim Duke's personal files.
<i>Ginkgo biloba</i>	Plant				Tyler, V.E.. 1982. The Honest Herbal. George F. Stickley Co., Philadelphia PA. 263 pp.
<i>Glycine max</i>	Seed				--
<i>Glycine max</i>	Plant	0.2	0.5	-1.3990945866465552	--
<i>Hibiscus sabdariffa</i>	Flower				--
<i>Juglans nigra</i>	Seed				--
<i>Juniperus communis</i>	Leaf				--
<i>Krameria triandra</i>	Root				--
<i>Malus domestica</i>	Fruit				--
<i>Maranta arundinacea</i>	Leaf				--
<i>Melilotus officinalis</i>	Shoot				--
<i>Melissa officinalis</i>	Plant				--
<i>Menyanthes trifoliata</i>	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Oenothera biennis</i>	Plant				--
<i>Olea europaea</i>	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Ononis spinosa</i>	Root				Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin.
<i>Origanum vulgare</i>	Plant				--
<i>Origanum vulgare</i>	Leaf		132.0	1.3991646855290003	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Perilla frutescens</i>	Leaf				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Petasites hybridus</i>	Rhizome				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Petroselinum crispum</i>	Stem				--
<i>Picrorhiza kurrooa</i>	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
<i>Pinus sylvestris</i>	Bark				--
<i>Polygonum hydropiperoides</i>	Plant				--
<i>Pteridium aquilinum</i>	Plant				--
<i>Pterocarpus marsupium</i>	Wood				--
<i>Punica granatum</i>	Fruit				--
<i>Rheum rhabarbarum</i>	Pt				--
<i>Rhynchosia minima</i>	Seed				--
<i>Ribes nigrum</i>	Fruit				--
<i>Rosa canina</i>	Tissue Culture				--
<i>Rosa canina</i>	Stem				--
<i>Rubus spectabilis</i>	Leaf				Li, C.Y. 1974. Phenolic Compounds in Understory Species of Alder, Conifer, and Mixed Alder-Conifer Stands of Coastal Oregon. <i>Lloydia</i> , 37(4): 603-607.
<i>Rubus idaeus</i>	Juice				--
<i>Rubus parviflorus</i>	Leaf				Li, C.Y. 1974. Phenolic Compounds in Understory Species of Alder, Conifer, and Mixed Alder-Conifer Stands of Coastal Oregon. <i>Lloydia</i> , 37(4): 603-607.
<i>Rubus idaeus</i>	Plant				--
<i>Schinus molle</i>	Bark				--
<i>Schisandra chinensis</i>	Fruit		58.3	-1.0000000000000002	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Schisandra chinensis</i>	Plant				--
<i>Sesamum indicum</i>	Leaf				--
<i>Sesamum indicum</i>	Fruit				--
<i>Solanum tuberosum</i>	Root Bark				--
<i>Solidago gigantea</i>	Plant		151.0	0.5209394737513771	--
<i>Sorbus aucubaria</i>	Fruit				--
<i>Spinacia oleracea</i>	Shoot				--
<i>Taraxacum officinale</i>	Flower				--
<i>Taxus baccata</i>	Leaf	9.0	35.0	-0.5213868403622216	--
<i>Theobroma cacao</i>	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Triticum aestivum</i>	Seed	3.0	6.0	1.0	--
<i>Vaccinium myrtillus</i>	Leaf				--
<i>Vaccinium myrtillus</i>	Fruit Juice				--
<i>Vaccinium myrtillus</i>	Fruit				--
<i>Vanilla planifolia</i>	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Vinca minor</i>	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Vitis vinifera</i>	Leaf				--
<i>Zea mays</i>	Tissue Culture				--